



United States Department of the Interior

GEOLOGICAL SURVEY
Water Resources Division
Tennessee District

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36547

A-413 Federal Bldg.
U.S. Courthouse
Nashville, TN 37203
June 10, 1982

Mr. Frank M. Alexander
Tennessee Division of Water Resources
701 Broadway
Nashville, TN 37203

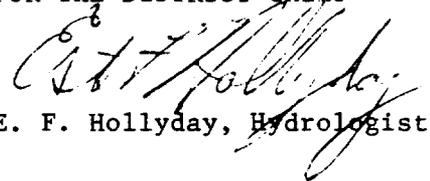
Dear Frank:

In response to your request for technical support of EPA's Field Investigation Team at Grassmere Croft Farm on May 18, 1982, enclosed is a table of discharge measurements made by us on that date and supplemental discharge and water quality information for February 22, 1982. The station names are cross referenced with EPA water-quality sampling sites, i.e: (SS-S2-W,S).

We would appreciate receiving a copy of the results of EPA's analyses of samples collected by E and E for priority pollutants.

Sincerely yours,

FOR THE DISTRICT CHIEF


E. F. Hollyday, Hydrologist

Enclosure

cc: C. H. Wilson
Ecology & Environment, Inc.
Decatur, GA
Fred Stroud, EPA
Region 4, Atlanta, GA ✓
Tray Bradfield, WRD
Nashville Subdistrict

Table 1.--Results of preliminary surveys of springs and creek
draining Grassmere Croft

| Station name | Location | | Specific conductance, in micromhos per centimeter at 25°C | pH, in units | Temperature, in degrees C | Yield, in gallons per minute | |
|--|--------------------------|-------|---|-----------------|------------------------------|------------------------------------|----------|
| | Lat. | Long. | | | | 2-22-82 | 5-18-82 |
| Grassmere Croft Spring Creek below confluence with tributary (SS-BC-W,S of EPA) | 360523-864402 | | -- | -- | -- | -- | 735 |
| Tributary to Grassmere Croft Spring Creek Site No. 1 | 360526-864407 | | 570 | 7.2 | 14.0 | 740 | -- |
| Tributary to Grassmere Croft Spring Creek Site No. 2 (SS-T1-W,S of EPA) | 360524-864406 | | 570 | 7.0 | 14.0 | 730 | 580 |
| Grassmere Croft Spring Creek Site No. 3 | 360523-864408 | | 420 | 6.8 | 14.0 | 430 | -- |
| Grassmere Croft Spring No. 1 | 360522-864409 | | 310 | 6.8 | 12.0 | 4 | -- |
| Grassmere Croft Spring No. 2 (SS-S2-W,S) | 360520-864411 | | 192 | 7.0 | 13.0 | 20 | -- |
| Grassmere Croft Spring No. 3 Spring box at Spring No. 3 (SS-S3-W,S of EPA) | 360520-864417 --- --- | | 370 -- | 6.8 -- | 14.5 -- | 60 -- | 28 23 |
| Grassmere Croft Spring No. 4 (SS-S4-W,S of EPA) | 360518-864422 | | 395 | 7.0 | 14.2 | 11 | -- |
| Grassmere Croft Spring No. 5 | 360518-864423 | | 400 | 7.1 | 14.0 | 16 | -- |
| Grassmere Croft Spring Creek Site No. 4 | 360520-864434 | | 500 | 6.8 | 14.0 | 276 | -- |
| Grassmere Croft Spring No. 6 (SS-S6-W,S of EPA) | 360521-864439 | | 505 | 6.8 | 9.0 | 0.5 | -- |
| Grassmere Croft Spring No. 7 (SS-S7-W,S of EPA) | 360519-864440 | | 500 | 6.8 | 14.0 | 250 | 145 |